[CLAIMS]

[Claim 1]

A light emitting device package, comprising:

a metal base;

an electrical circuit layer provided at an upper side of the metal base for providing a conductive path;

an insulating layer sandwiched between the meta base and the electrical circuit layer;

a light emitting device mounted on the top surface of the metal base in an open space from which the insulating layer is removed;

an electrode layer provided at an upper side of the electrical circuit layer; and

a connection portion for electrically connecting the electrode layer and the light emitting device.

[Claim 2]

The light emitting device package of claim 1, further comprising a molding portion for molding the inside of the open space.

[Claim 3]

The light emitting device package of claim 1, further comprising a heat sink formed on the bottom surface of the metal base.

[Claim 4]

The light emitting device package of claim 1, further comprising a heat sink combined to the metal base by a screw.

[Claim 5]

The light emitting device package of claim 1, further comprising a heat sink that comes in contact with one surface of the metal base with a heat transfer material embedded therein.

[Claim 6]

The light emitting device package of claim 1, wherein the open space is processed by milling.

[Claim 7]

The light emitting device package of claim 1, wherein the open space is processed by etching.

[Claim 8]

The light emitting device package of claim 1, wherein the light emitting device is one or more LED chips selected from the group consisting of a red LED chip, a green LED chip, a blue LED chip, a yellow LED chip and an orange LED chip.

[Claim 9]

The light emitting device package of claim 1, wherein the light emitting device comes in contact with the metal base.

[Claim 10]

The light emitting device package of claim 1, wherein the light emitting device consists of one or more SiOB chips.

[Claim 11]

The light emitting device package of claim 1, wherein the light emitting device is combined to the metal base by a thermal conductive hardening agent.

[Claim 12]

The light emitting device package of claim 1, wherein the light emitting device is provided in a plurality of modules on one metal base, and the electrical circuit layer serially connects the respective modules.

[Claim 13]

The light emitting device package of claim 1, wherein the light emitting device is provided in a plurality of modules on one metal base, and the modules are arranged in either straight line, round or polygon.

[Claim 14]

The light emitting device package of claim 1, wherein a plating layer is provided on the top surface of the electrode layer.

[Claim 15]

The light emitting device package of claim 1, wherein the electrode layer is plated with gold.

[Claim 16]

The light emitting device package of claim 1, wherein the

electrode layer is plated at a thickness of 0.3mm or greater.

[Claim 17]

The light emitting device package of claim 1, wherein the electrical circuit layer and the electrode layer are formed at an overall thickness of the two layers within 200mm.

[Claim 18]

The light emitting device package of claim 1, wherein the electrode layer is formed by an electroplating method.

[Claim 19]

The light emitting device package of claim 1, wherein a removal region removed to a predetermined depth is provided on the metal base, and the light emitting device is placed in the removal region.

[Claim 20]

The light emitting device package of claim 1, wherein the region of the metal base where the light emitting device is placed has a smaller thickness than the other regions.

[Claim 21]

The light emitting device package of claim 19, wherein the sides of the removal region are inclined at a predetermined angle.

[Claim 22]

The light emitting device package of claim 19, wherein the

inner surface of the removal region are coated or provided with a reflecting material.

[Claim 23]

The light emitting device package of claim 19, wherein the removal region is formed in a cylindrical shape.

[Claim 24]

The light emitting device package of claim 19, wherein the removal region is processed by milling.

[Claim 25]

The light emitting device package of claim 1, further comprising:

a silk screen layer formed on the top surface of the electrode layer; and

a lens portion attached to the silk screen layer.

[Claim 26]

The light emitting device package of claim 25, wherein the light emitting device is molded by resin forming the lens portion.

[Claim 27]

The light emitting device package of claim 25, wherein the lens portion is molded.

[Claim 28]

A light emitting device package, comprising:

a metal base;

an electrical circuit layer provided at an upper side of the metal base for providing a conductive path;

a light emitting device mounted in a second region having a smaller thickness than a first region on the metal base;

an insulating layer sandwiched between the meta base and the electrical circuit layer;

an electrode layer provided at an upper side of the electric circuit layer; and

a connection portion for electrically connecting the electrode layer and the light emitting device..

[Claim 29]

The light emitting device package of claim 28, wherein the inside of the second region is molded by resin.

[Claim 30]

The light emitting device package of claim 28, wherein the second region is inclined at a predetermined angle.

[Claim 31]

The light emitting device package of claim 28, wherein the inner surface of the second region is coated by a gloss finish.

[Claim 32]

The light emitting device package of claim 28, wherein a reflecting material is provided on the inner surface of the second region.

[Claim 33]

The light emitting device package of claim 28, wherein the second region is formed in a cylindrical shape.

[Claim 34]

The light emitting device package of claim 28, wherein the second region is formed by processing the original metal base.

[Claim 35]

The light emitting device package of claim 28, wherein the second region is processed by milling.

[Claim 36]

The light emitting device package of claim 28, wherein the inside of the second region is filled by the molding portion.

[Claim 37]

The light emitting device package of claim 28, wherein the top surface of the molding portion is flat.

[Claim 38]

The light emitting device package of claim 28, wherein the insulating layer corresponding to the region where the light emitting device is placed is opened and forms an open space.

[Claim 39]

The light emitting device package of claim 38, wherein the sides of the open space are inclined at a predetermined angle.